Federal Student Aid (FSA) Students Portal Rollout – Release 1

System Integration Test Plan

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1.0   System Integration Test Overview

The System Integration Test Plan provides an overview of the testing necessary to ensure that the functionality delivered meets the requirements that have been identified for the Students Portal Rollout for Release 1. Included in this document is a list of detailed items that will be incorporated into test scripts and applied in the System Integration Testing.

The main purposes of System Integration Test was to:

- Test Application Functionality (login, search function, personalization, links, etc…).
- Confirm Content Management and Production.
- Validate all of the above within a system test environment.

Entry Criteria for System Integration Test Execution:

- All applications and application components necessary for cycle to be completed have been inventoried and promoted.
- System Integration Test Plan is complete.
- Resources to execute tests are available.
- The System Test environment is in place.

Exit Criteria for System Integration Test:

- All test cases and conditions have been executed successfully.
- Identified errors and defects have been corrected and re-tested.
- All issues and incidents have been properly documented and worked through the resolution process.
- All reviews were conducted, and that the review yields satisfactory results.

2.0   System Integration Test Scope

System Integration Test cases will be based on the following:

- Application Functionality
- Content Management and Production

3.0   Roles and Responsibilities

System Integration Testing involved the Student Portal Team. The primary role for the System Integration Testing effort was the Test Team Analyst. This role is described below:

3.1   Test Team Analysts

- Assist in the development of the System Integration Test Plan.
- Execute the System Integration tests.
- Evaluate the System Integration test results.
- Report all incidents and problems encountered during testing activities.

Ms. Teale Taggart, Ms. Anne Jensen and Bryan Hykes will serve as the System Test Team Analysts.

3.2   Test Team Lead

- Define a System Integration Test Plan.
- Define System Integration test cases and scripts.
- Monitor the testing process to identify problems, mitigate potential risks and schedule slippage.

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- Review test results with the test team to clarify questions, concerning system functionality and discrepancies with expected results, and ensured that the system testing activity was a valid and complete exercise.

- Certify that the testing process was comprehensive in scope and complete manage the execution of system integration tests.

Erick Middleton will serve as the Test Team Lead

4.0   Executing and Validating Test Cases

Each test case was designed as a discrete, executable exercise that would return a predictable result. Test Cases included a setup, input, and expected result sections. Each test case was designed to verify the functionality of a business scenario and described step by step how the business scenario was being tested.

The actual test results were then compared to the expected results to determine if the test ran correctly, "Pass" (or incorrectly, "Fail") by the Test Team Analyst executing the case.

A "discrepancy" was defined as the difference between what was *expected* to happen and what *actually* happened. Discrepancies were initially evaluated to ensure that they represent system defects. The initial evaluation of discrepancies included:

- Review of the test data;

- Review of the test environment;

- Review of test scripts;

- Review of actual system functioning.

If it was determined that the "discrepancy" represented a system defect, the incident was forwarded to the development team for assessment and proposed solution. After successfully testing the modification, the incident was designated as "closed" by the Test Team Lead.

Validation of a test case occurred when the specific test activity has a status of "Pass" and was reviewed by the Test Team Lead. Completion of System Integration Testing was dependent upon each test activity having a status of "pass".

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5.0   Test Scenarios/Cases

The following is a list of test cases, which will be used to write detailed test scripts. Detailed test scripts with expected results will be documented for each item listed below.

5.1   General Application Functionality and Security
- Verify that all pages within the Students Portal are compliant with Section 508 of the American with Disabilities Act.
- Verify that a user can search all content within the Students Portal.
- Verify that the portal administrator can update content within the Students Portal.
- Verify that the user location is indicated by a different color that the tabs of the other pages.
- Very that the sub-tab of the current location is indicated by a different color than the other sub-tabs of the other sub-pages are deactivated.
- Verify that upon personalization a user can find links based upon their state of residence and state of interest.
- Verify that a user can return to the Students Portal from the FAFSA congratulations page.
- Verify that a user can create a personalized Portal account.
- Verify that a user can access his/her personalized account upon login.
- Verify that a user can create a user name and password.
- Verify that a user must enter password each time they log in.
- Verify that passwords are submitted over secure server.
- Verify that passwords are masked by asterisks (***) when entered.

5.2   General Content
- Verify that the formatting, navigation, graphics, colors, and fonts is consistent throughout the Students Portal.
- Verify the functionality of the Privacy link and that the Privacy link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Security link and that the Security link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Notices link and that the Notices link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Skip Navigation link and that the Skip Navigation link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Home link and that the Home link is accessible on all the pages within the Students Portal.
- Verify that a user can switch the Students Portal to English or Spanish by clicking the corresponding language button.
- Verify that the FSA logo is prominently displayed and in the same location on each page within the Students Portal.
- Verify that the Department of Education seal is displayed on all the pages within the Students Portal.

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- Verify that the Department of Education text "U.S. Department of Education" is displayed next to the Dept. of ED. Logo on all the pages within the Students Portal.
- Verify the functionality of the Preparing tab link and that the Preparing tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Choosing tab link and that the Choosing tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Applying tab link and that the Applying tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Funding tab link and that the Funding tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Attending tab link and that the Attending tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the Repaying tab link and that the Repaying tab link is accessible on all the pages within the Students Portal.
- Verify the functionality of the MyFSA link and that the MyFSA link is accessible on all the pages within the Students Portal.

5.3 General Content, Site Resources

- Verify the functionality of the About Us link and that the About Us link is accessible in the left navigation bar on all the pages within the Students Portal.
- Verify the functionality of the Contact Us link and that the Contact Us link is accessible in the left navigation bar on all the pages within the Students Portal.
- Verify the functionality of the FAQs link and that the FAQs link is accessible in the left navigation bar on all the pages within the Students Portal.
- Verify the functionality of the Site Map link and that the Site Map link is accessible in the left navigation bar on all the pages within the Students Portal.
- Verify the functionality of the Technical Help link and that the Technical Help link is accessible in the left navigation bar on all the pages within the Students Portal.

5.4 General Content, Quick Links

- Verify the functionality of the FAFSA link and that the FAFSA link is accessible on all the pages within the Students Portal.
- Verify the functionality of the NSLDS link and that the NSLDS link is accessible on all the pages within the Students Portal.
- Verify that a user can add favorite links to his/her personalized account and that the favorite links will be available each time the user returns and logs in.

5.5 General Content, Audience Links

- Verify the functionality of the Parents link and that the Parents link takes you to the Parents page.
- Verify the functionality of the Returning Students link and that the Returning Students link takes you to the Returning Students page.

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- Verify the functionality of the International Students link and that the International Students link takes you to the Preparing page.
- Verify the functionality of the Elementary School link.
- Verify the functionality of the Junior High/High School link and that the Junior High/High School link takes you to the Preparing page.
- Verify the functionality of the College link and that the College link takes you to the Attending page.

5.6   Audiences Pages, Parents content - Main
- Verify the functionality of the PLUS Loans link and that the PLUS Loans link takes you to the Parent Loan Information page.
- Verify the functionality of the College Savings Programs link.
- Verify the functionality of the Savings Calculators link.
- Verify that there is College Preparation advice on the Parents page.
- Verify that there is Home Schooling information on the Parents page.

5.7   Audience Pages, Parents content – parent loans
- Verify that there is PLUS Loan information on the Parent Loans page.

5.8   Audience Pages, Returning Students content
- Verify the functionality of the Self Assessment link.
- Verify the functionality of the GED link.
- Verify the functionality of the Take the Tests link and that the Take the Tests link takes you to the Testing Information page.
- Verify the functionality of the Types of Schools link and that the Types of Schools link takes you to the Types of Schools page.
- Verify the functionality of the Things to Consider link and that the Things to Consider link takes you to the Things to Consider page.
- Verify the functionality of the Understanding College Costs link and that the Understanding College Costs link takes you to the Understanding the Costs page.
- Verify the functionality of the So Many Choices link and that the So Many Choices link takes you to the School Search page.
- Verify the functionality of the Funding Your Education link and that the Funding Your Education link takes you to the Funding page.
- Verify the functionality of the Attending School link and that the Attending School link takes you to the Attending School page.
- Verify the functionality of the Entering Repayment link and that the Entering Repayment link takes you to the Repaying page.

5.9   Audience Pages, International Students content – Main
- Verify the functionality of the Important Questions link and that the Important Questions link takes you to the Important Questions page.

- Verify that there is information on Culture Shock on the International Students page.
- Verify the functionality of the Paying for School link and that the Paying for School link
   takes you to the Funding page.
- Verify the functionality of the Financial Aid Eligibility link.
- Verify the functionality of the Getting Started link and that the Getting Started link
   takes you to the Getting Started page.
- Verify that there is information on Americans Abroad on the International Students page.

5.10   Audience Pages, International Students content – Important Questions
   - Verify that there are Important Questions for International Students who are considering
      attending school in the U.S. listed on the Important Questions page.

5.11   Audience Pages, International Students content – Getting Started
   - Verify the functionality of the Be Prepared link and that the Be Prepared link takes you to the
      Preparing page.
   - Verify the functionality of the Test Your English Information link.
   - Verify the functionality of the Taking the Tests link and that the Taking the Tests link
      takes you to the Testing Information page.
   - Verify the functionality of the Get a Student Visa link.

5.12   Audience Pages, Elementary School
   - Verify the functionality of the Think College Early link.

5.13   Audience Pages, Junior High/High School
   - Verify the functionality of the Preparing link and that the Preparing link takes you to the
      Preparing page.

5.14   Audience Pages, College
   - Verify the functionality of the Attending link and that the Attending link takes you to the
      Attending page.

5.15   Preparing Content - Main
   - Verify the functionality of the Start Early link.
   - Verify the functionality of the Parents link and that the Parents link takes you to the
      Parents page.
   - Verify the functionality of the Think College Early link.
   - Verify the functionality of the Self Assessment link.
   - Verify the functionality of the Make a Checklist link and that the Make a Checklist link takes
      you to the College checklist page.
   - Verify the functionality of the Plan Your Classes link and that the Plan Your Classes link takes
      you to the Recommended Courses page.
   - Verify the functionality of the Take the Tests link and that the Take the Tests link

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takes you to the Testing Information page.

5.16   Preparing Content – Checklist
- Verify that there is a checklist for students from pre-high school through 12th grade on the Checklist page.

5.17   Preparing Content – Recommended Courses
- Verify that there is a list of recommended courses for both junior high and high school students on the Recommended Courses page.

5.18   Preparing Content – Testing Information
- Verify that there is standardized testing information on the Testing Information page.
- Verify the functionality of the SAT link.
- Verify the functionality of the ACT link.
- Verify the functionality of the PLAN link.
- Verify the functionality of the PSAT link.
- Verify the functionality of the GRE link.
- Verify the functionality of the GMAT link.
- Verify the functionality of the LSAT link.
- Verify the functionality of the MCAT link.
- Verify the functionality of the TOEFL link.

5.19   Choosing Content - Main
- Verify the functionality of the Self Assessment link.
- Verify the functionality of the Types of Schools link and that the Types of Schools link takes you to the Types of Schools page.
- Verify the functionality of the Things to Consider link and that the Things to Consider link takes you to the Things to Consider page.
- Verify the functionality of the Understanding the Costs link and that the Understanding the Costs link takes you to the Understanding the Costs page.
- Verify the functionality of the So Many Choices link and that the So Many Choices link takes you to the School Search page.
- Verify the functionality of the Participation link.

5.20   Choosing Content – Types of Schools
- Verify that there is information about the basic types of postsecondary schools on the Types of Schools page.
- Verify the functionality of the Database of 2 Year Schools link.
- Verify the functionality of the Database of 4 Year Schools link.
- Verify the functionality of the Database of Vocational Schools link.

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5.21   Choosing Content – Things to Consider
- Verify that there are points to consider when choosing a school on the Things to Consider
  page.

5.22   Choosing Content – Understanding the Costs
- Verify that there is information about the direct and indirect costs involved with
  postsecondary education on the Understanding the Costs page.

5.23   Choosing Content – School Search
- Verify that there is information about resources they may be if assistance while choosing a
  school on the School Search page.
- Verify the functionality of the Database of 2 Year Schools link.
- Verify the functionality of the Database of 4 Year Schools link.
- Verify the functionality of the Database of Vocational Schools link.

5.24   Applying Content - Main
- Verify the functionality of the Timeline for Seniors link and that the Timeline for Seniors link
  takes you to the Timeline for Seniors page.
- Verify the functionality of the Apply Early link and that the Apply Early link takes
  you to the Applying Early page.
- Verify the functionality of the Make a "To Do" List link and that the Make a "To Do" List link
  takes you to the "To Do" page.

5.25   Applying Content – Timeline for Seniors
- Verify that there is a timeline for High School Seniors who are applying to college on the
  Timeline page.
- Verify the functionality of the FAFSA link.

5.26   Applying Content – Applying Early
- Verify that there is information about the various early admission programs that may be
  available on the Applying Early page.

5.27   Applying Content – "To Do" List
- Verify that there is a suggested list of things to do while applying to college on the "To Do"
  List page.

5.28   Funding Content - Main
- Verify the functionality of the FAFSA link.
- Verify the functionality of the PIN site link.
- Verify the functionality of the Federal Student Aid link.
- Verify the functionality of the Student Aid Eligibility link and that the Student Aid Eligibility
  link takes you to the Aid Eligibility page.

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- Verify the functionality of the Tax Break link.
- Verify the functionality of the Grants link and that the Grants link takes you to the Grants page.
- Verify the functionality of the Student Loans link and that the Student Loans link takes you to the Student Loan Information page.
- Verify the functionality of the Parent Loans link and that the Parent Loans link takes you to the Parent Loan Information page.
- Verify the functionality of the Work-Study link and that the Work-Study link takes you to the Campus-based Information page.
- Verify the functionality of the Understanding Financial Aid link.
- Verify the functionality of the Student Aid Report link.
- Verify the functionality of the Borrowing Responsibly link and that the Borrowing Responsibly link takes you to the Borrowing Responsibly page.
- Verify the functionality of the Calculate You Interest Rates link.
- Verify the functionality of the Finding Scholarships link and that the Finding Scholarships link takes you to the Scholarship age.
- Verify the functionality of the State Aid link.

5.29   Funding Content – Aid Eligibility
- Verify that there is information about the guidelines for federal student aid eligibility on the Aid Eligibility page.
- Verify the functionality of the Eligible Noncitizens link.

5.30   Funding Content – Grants Information
- Verify that there is information about federal grant programs on the Grants Information page.
- Verify the functionality of the OPE Grants link.

5.31   Funding Content – Student Loan Information
- Verify that there is information about federal student loan programs on the Student Loan Information page.

5.32   Funding Content – Parent Loan Information
- Verify that there is information about federal parent loan programs on the Parent Loan Information page.

5.33   Funding Content – Campus-Based Aid Information
- Verify that there is information about federal campus-based aid loan programs on the Campus-Based Aid Information page.

5.34 **Funding Content – Borrowing Responsibly**
- Verify that there are suggestion on how to be responsible when taking out education loans on the Borrowing Responsibly page.

5.35 **Funding Content – Scholarship Information**
- Verify that there is information about scholarship resources on the Scholarship Information page.
- Verify the functionality of the Scholarship Scams link.

5.36 **Attending Content - Main**
- Verify the functionality of the New Borrowers link and that the New Borrowers link takes you to the Funding page.
- Verify the functionality of the Loan Entrance Counseling link and that Loan Entrance Counseling link takes you to the Loan Entrance Counseling page.
- Verify the functionality of the FAFSA Renewal link.
- Verify that there is information regarding aid renewal deadlines on the Attending page.
- Verify the functionality of the Maintaining Eligibility link and that the Maintaining Eligibility link takes you to the Aid Eligibility page.
- Verify the functionality of the Leaving School Early link and that Leaving School Early link takes you to the Leaving School Early page.
- Verify the functionality of the School Closures link and that the School Closures link takes you to the Closed School Information page.
- Verify the functionality of the Attention College Seniors link and that the Attention College Seniors link takes you to the Loan Exit Counseling page.
- Verify the functionality of the NSLDS link.
- Verify the functionality of the Find a Career link and that the Find a Career link takes you to the Career Information page.

5.37 **Attending Content – Loan Entrance Counseling**
- Verify that there is information on the loan entrance counseling process on the Loan Entrance Counseling page.
- Verify the functionality of the Promissory Note link.

5.38 **Attending Content – Leaving School Early**
- Verify that there is information for students who leave school before graduation on the Leaving School Early page.

5.39 **Attending Content – Closed School Information**
- Verify that there is information for students who attend(ed) schools that have closed on the Closed Schools page.
- Verify the functionality of the Closed Schools Search link.
- Verify the functionality of the Special Circumstances link.

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- Verify the functionality of the Guide to Defaulted Loans link.
- Verify the functionality of the State Licensing Agencies link.

5.40   Attending Content – Loan Exit Counseling
- Verify that there is information on the loan exit counseling process on the Loan Exit
  Counseling page.
- Verify the functionality of the Interest Capitalization link.
- Verify the functionality of the ICR Definition site link.

5.41   Attending Content – Career Information
- Verify that there is information on career planning on the Career Information page.
- Verify the functionality of the Self Assessment link.
- Verify the functionality of the Planning your Career link.
- Verify the functionality of the Internships and Fellowships link.
- Verify the functionality of the Job Search link.
- Verify the functionality of the Resume Builder link.
- Verify the functionality of the Explore your Options link.

5.42   Repaying Content – Main
- Verify the functionality of the Paying Back Student Loans link and that the Paying Back
  Student Loans link takes you to the Loan Exit Counseling page.
- Verify the functionality of the Student Guide link.
- Verify the functionality of the NSLDS link.
- Verify the functionality of the Electronic Debit link and that the Electronic Debit link takes you
  to the Electronic Debit page.
- Verify the functionality of the Calculate link.
- Verify the functionality of the Cancellation and Deferments Options for Teachers link.
- Verify the functionality of the Postpone Repayment link and that the Postpone Repayment
  link takes you to the Deferments and Forbearances page.
- Verify the functionality of the Discharged link and that the Discharged link takes you to the
  Discharges page.
- Verify the functionality of the Difficulty Repaying link and that the Difficulty Repaying link
  takes you to the Difficulty Repaying page.
- Verify the functionality of the Consolidate your Student Loans link and that the Consolidate
  your Student Loans link takes you to the Loan Consolidation page.
- Verify the functionality of the Defaulted Borrowers link.

5.43   Repaying Content – Loan Exit Counseling
- Verify the functionality of the Loan Exit Counseling link and that the Loan Exit Counseling
  link takes you to the Loan Exit Counseling page.

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5.44   Repaying Content – Electronic Debit
  - Verify that there is information on electronic debiting on the Electronic Debit page.
  - Verify the functionality of the Direct Loans link.

5.45   Repaying Content – Difficulty Repaying
  - Verify that there is information for borrowers who are having difficulty repaying their loan on
    the Difficulty Paying page.
  - Verify the functionality of the Direct Loans link.

5.46   Repaying Content – Deferments and Forbearances
  - Verify that there is information about loan deferments and forbearances on the Loan and
    Forbearances page.
  - Verify the functionality of the Direct Loans link.

5.47   Repaying Content – Loan Consolidation
  - Verify that there is information about loan consolidation on the Loan Consolidation page.

5.48   Repaying Content – Loan Discharges
  - Verify that there is information about loan discharges on the Loan Discharges page.
  - Verify the functionality of the Discharge Application link.
  - Verify the functionality of the Guide to Defaulted Loans link.

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6.0 ISSUES / QUESTIONS

The following issues / questions related to the System Integration Test Plan.

Issue	Resolution